

Declass Review by
NIMA/DOD

IPO/OSB/M-189-66
22 December 1966

MEMORANDUM FOR: Assistant for Technical Development, NPIC

ATTENTION:

SUBJECT: Evaluation of Development Objectives for the Dual
Viewing Light Table

1. The initial request for the table provided for two tables, having a split light surface, that would allow their use separately - as the present 940 MCE is used - or together where viewing of two rolls of 9 inch film is required. The first suggestion is that the tables be considered as separate units that can be coupled together when necessary. Twin Viewing Light Tables with Translating Microscope Carriages would seem more appropriate as the nomenclature.

2. In reference to specific items within the objectives, the following comments are forwarded:

3. General Description. (Change)

These tables shall provide a total illuminated area 22" by 40" for viewing 4 rolls of 70 mm, 4 rolls of 5 inch or 2 rolls of 9 $\frac{1}{2}$ inch film.

Each unit will have - etc. The operators will sit as they would at their own desks.

4. Requirements

4.1 Illumination System (Change)

4.1.1. Illumination. The total 22" by 40" format (which is separated into 4 distinct quadrants) shall be ---- illuminators. Each illuminator will be independently controlled so that operation of any one will not in any way affect the other three.

4.1.1.2 Variability of Intensity. There shall be ----- area. The intensity of illumination shall be continuously variable through a range of 5% - 100% of full ----- "flicker".

4.2 External Configuration. (Change)

4.2.1. Size. The overall height of the light tables shall not exceed 7 $\frac{1}{2}$ " (minus the microscope carriage, scope, and reels.

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4.2.5. Mobility (Add)

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The tables will be caster mounted to facilitate their being moved from one place to another.

4.3. Spool Loading & Holding Mechanism.

4.3.1. Loading Mechanism. (Change)

A drop in film loading system will be considered but is not essential.

4.3.2. Holding Mechanism. As a general comment, the locking mechanism designed for the 918 Tilt Top light table would be excellent.

4.4. Film Transport. (Change)

4.4.1. General. The film transport system for each operating position shall permit film motion individually if four rolls of film are mounted, bi-directional or transport in the same direction. Controls shall be available for operation from either table and convenient to the operator.

4.4.2. Film Capacity. The film transport system for each operating position, must accommodate two rolls of 70 mm through 5 inch and one roll of $9\frac{1}{2}$ inch-wide film ----- capacity.

4.4.5.6. Loop Take-Up. Two film ----- desirable. They must be so designed that film can be viewed without the loop and available to form a loop with a minimum of effort. Maximum loop requirement is up 18 feet.

4.5. Translating Microscope Carriages. (Change)

4.5.1. General. Each stereoscope will ----- over the combined viewing surface. Overhead mounting should not be considered because of obstructions presented by guides and bars over the film area.

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4.5.2. Viewing Capability. (Change)

As a general comment - the normal viewing position should be stated as "his normal seated viewing position" in this and other position references throughout the objectives.

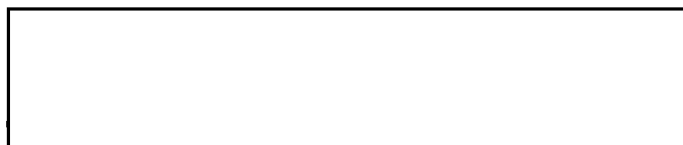
4.5.3. Stereoscope Adapters. Adapters must be
----- appropriate focus mechanism and microscope support:

- a.
- b.
- c.

Design of the microscope mount will insure that the microscope is securely held in position. The mount will also be sturdy enough to insure perpendicularity of the optical axis of the microscope to the plane of the illuminated surface for extended periods of time without need for adjustment of this relationship.

4.6. Miscellaneous. (Change)

4.6.6. The proposal ----- in quantities of 2, 10, 24 and 100.



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